

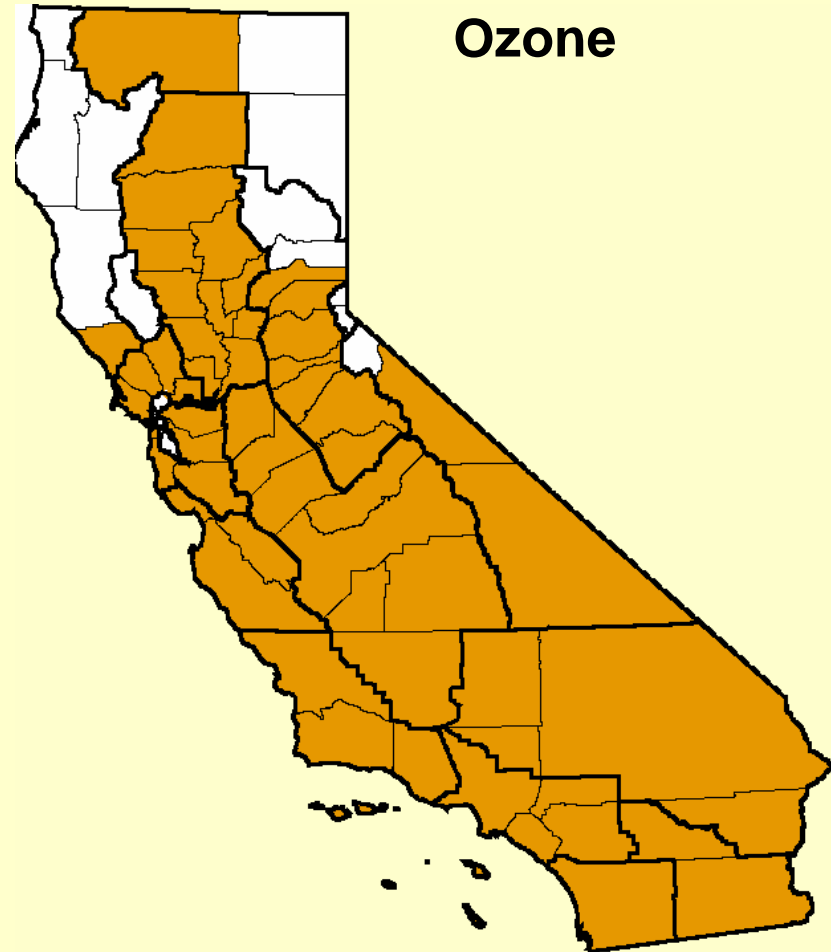
State of the State's Air Quality 2006

Board Presentation
January 25, 2007

Overview of Air Quality Progress

- Overview of Attainment Status
- Federal 8-hour Ozone
- Federal PM_{2.5}
- Preliminary 2006 Air Quality
- Air Quality Successes

State Nonattainment Areas



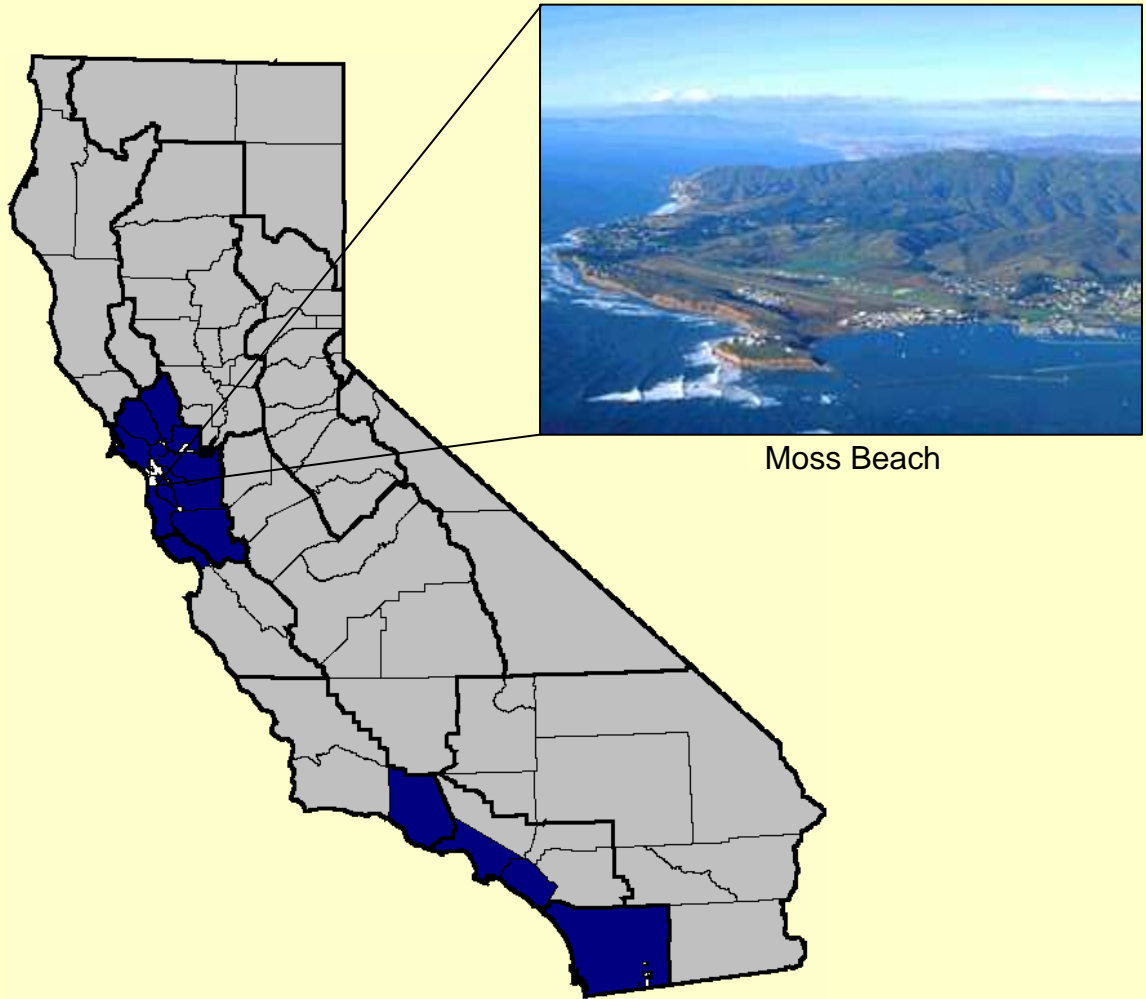
Federal 8-hour Ozone Nonattainment Areas



Federal 8-hour Ozone

California Coastal Areas

- Ventura
- San Diego
- South Coast
has some coastal
characteristics

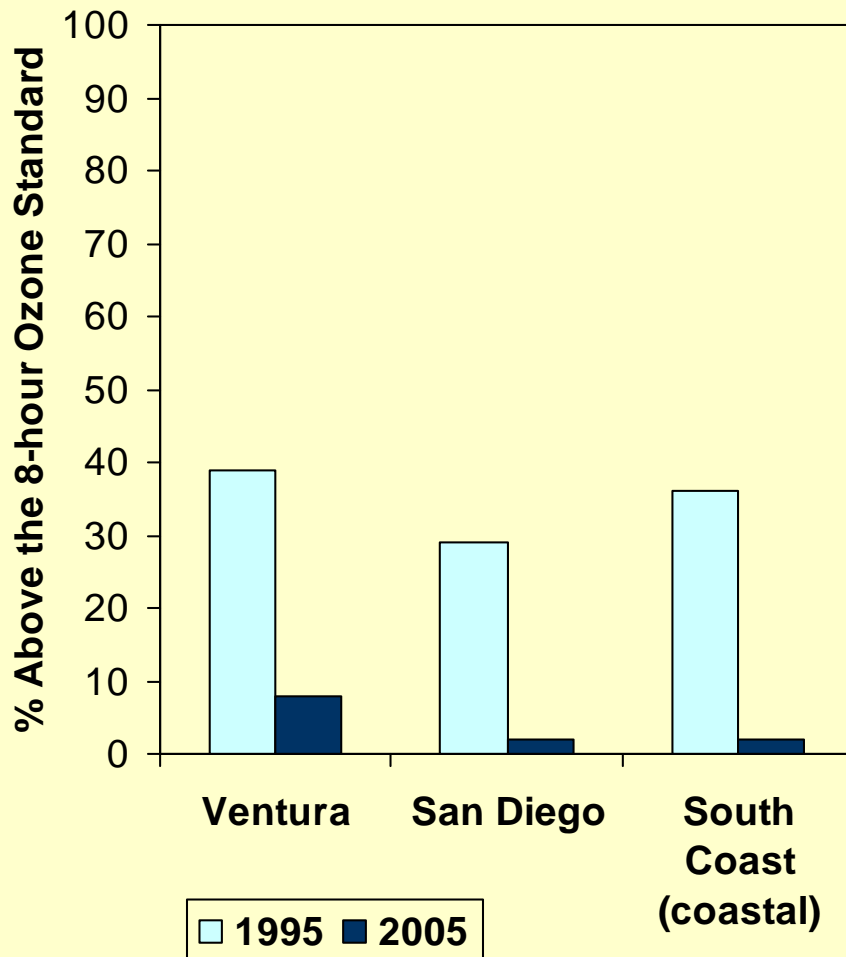


Moss Beach

Note: Bay Area currently
meets standard

Ozone 8-hour Design Value

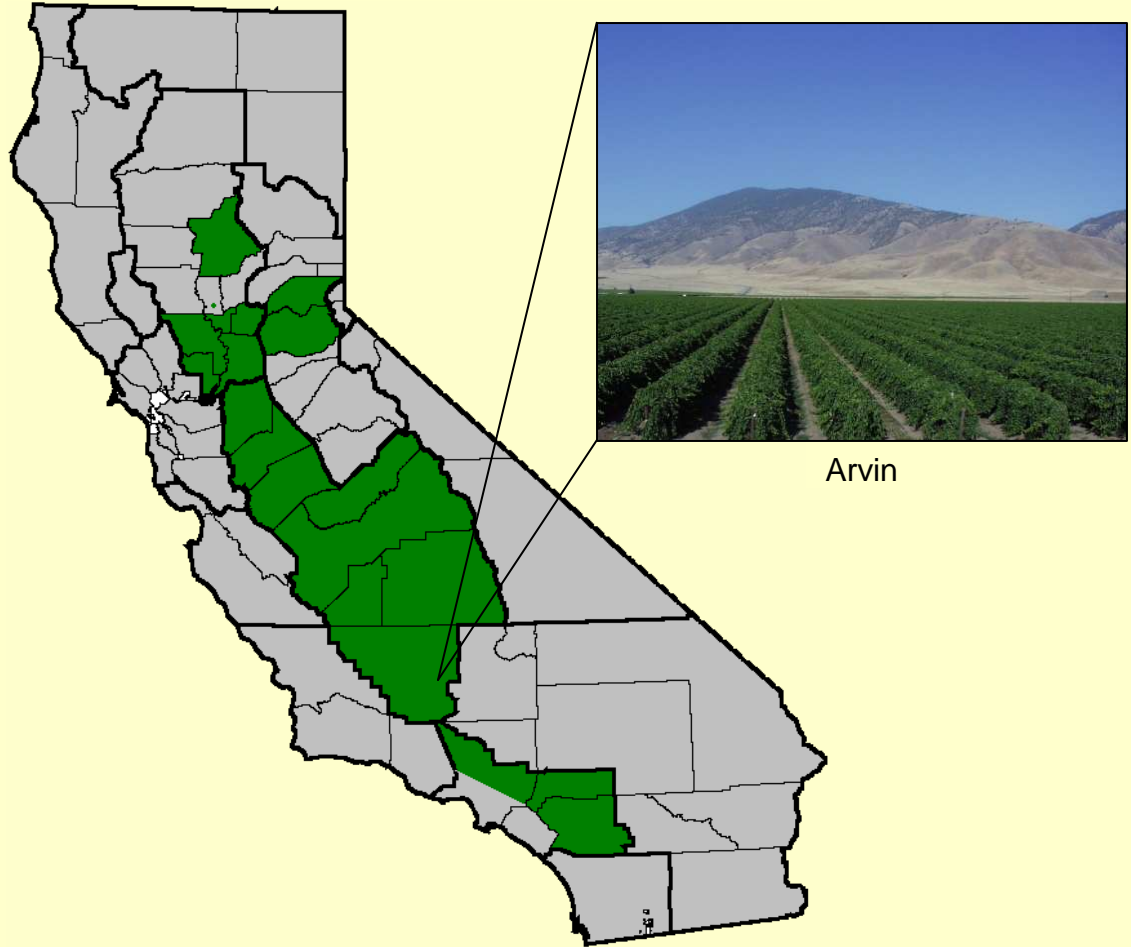
Coastal Areas



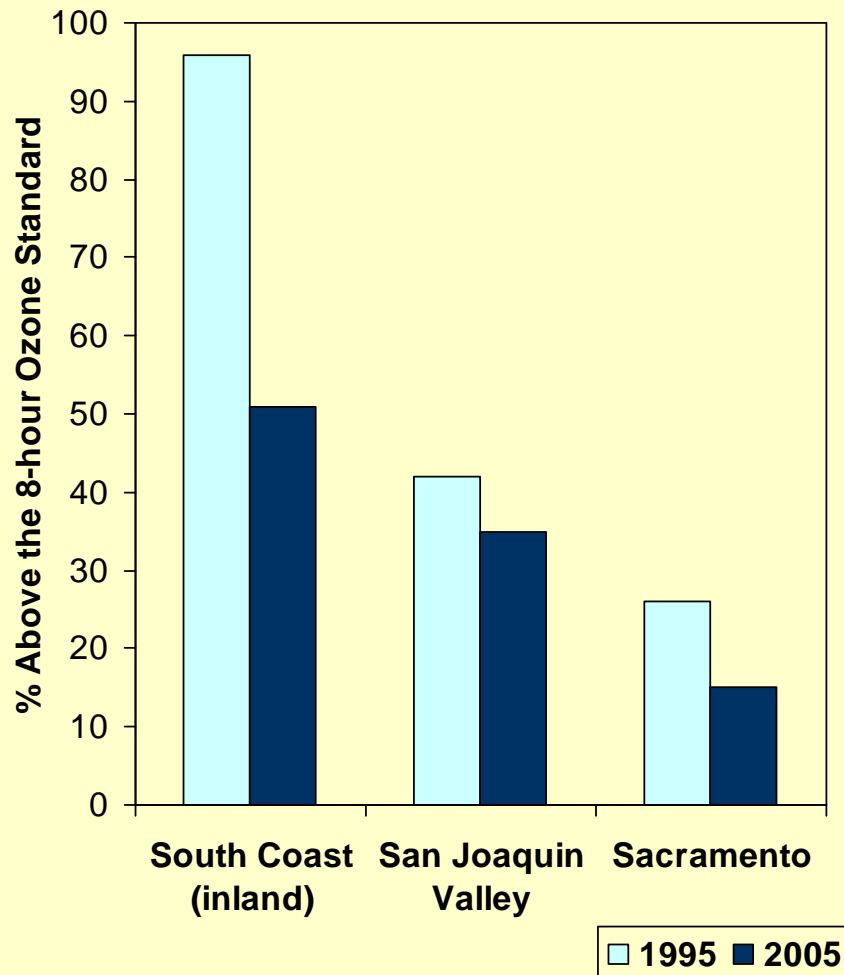
- Bay Area currently meets the standard
- Ventura and San Diego close to meeting the standard
- Portions of South Coast air basin now meet the standard

California Inland Areas

- Sacramento Region
- San Joaquin Valley
- Most of South Coast Air Basin

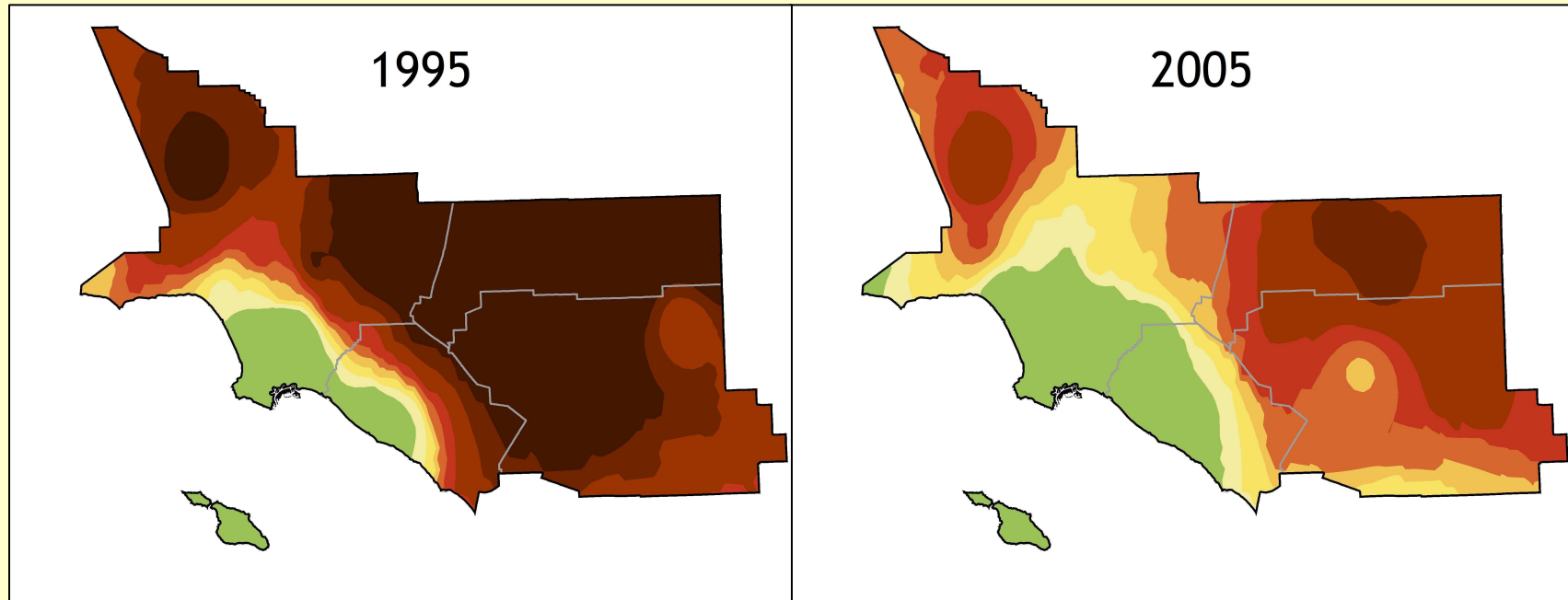


Ozone 8-hour Design Value Inland Areas



- The South Coast's design value in 2005 was 50% above the standard, down from 95% above the standard ten years ago
- Slower progress in the San Joaquin Valley (5%) and Sacramento region (10%)

Ozone 8-hour Design Value South Coast



Below the Standard

0.000 - 0.084

Above the Standard

0.085 - 0.089

0.090 - 0.094

0.095 - 0.099

0.100 - 0.104

0.105 - 0.109

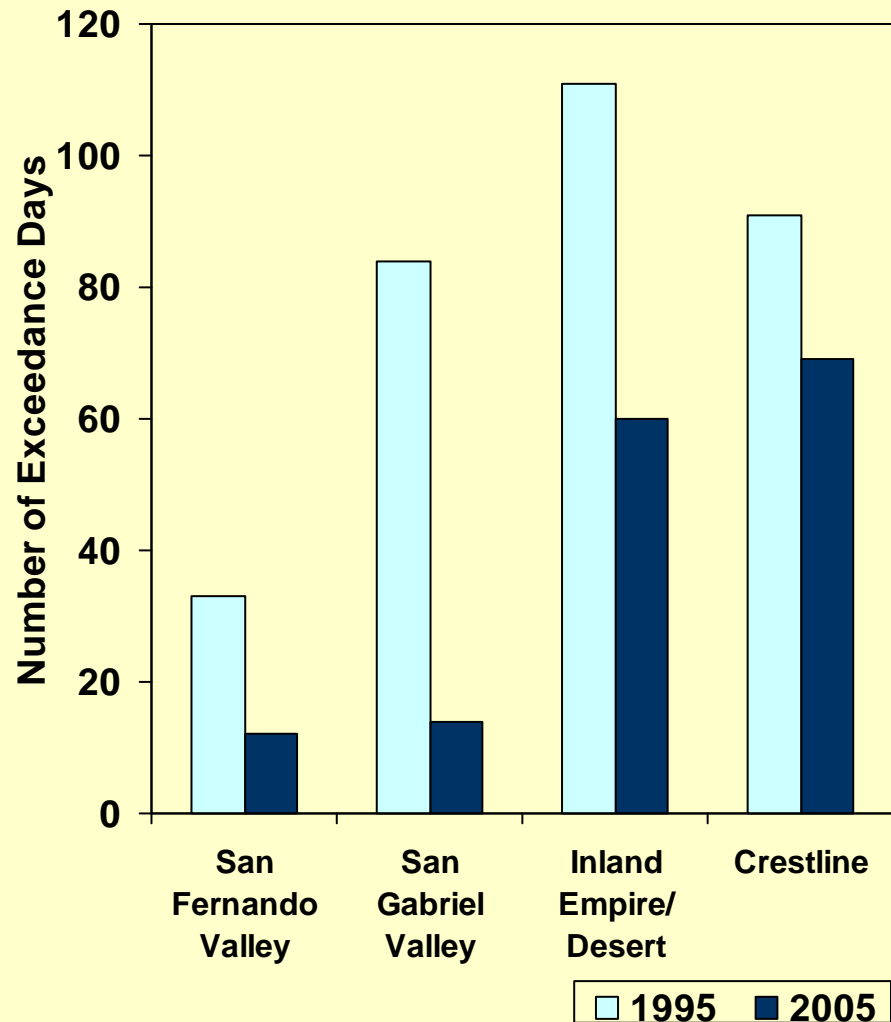
0.110 - 0.119

0.120 - 0.129

0.130 +

Ozone 8-hour Exceedance Days

South Coast - Inland

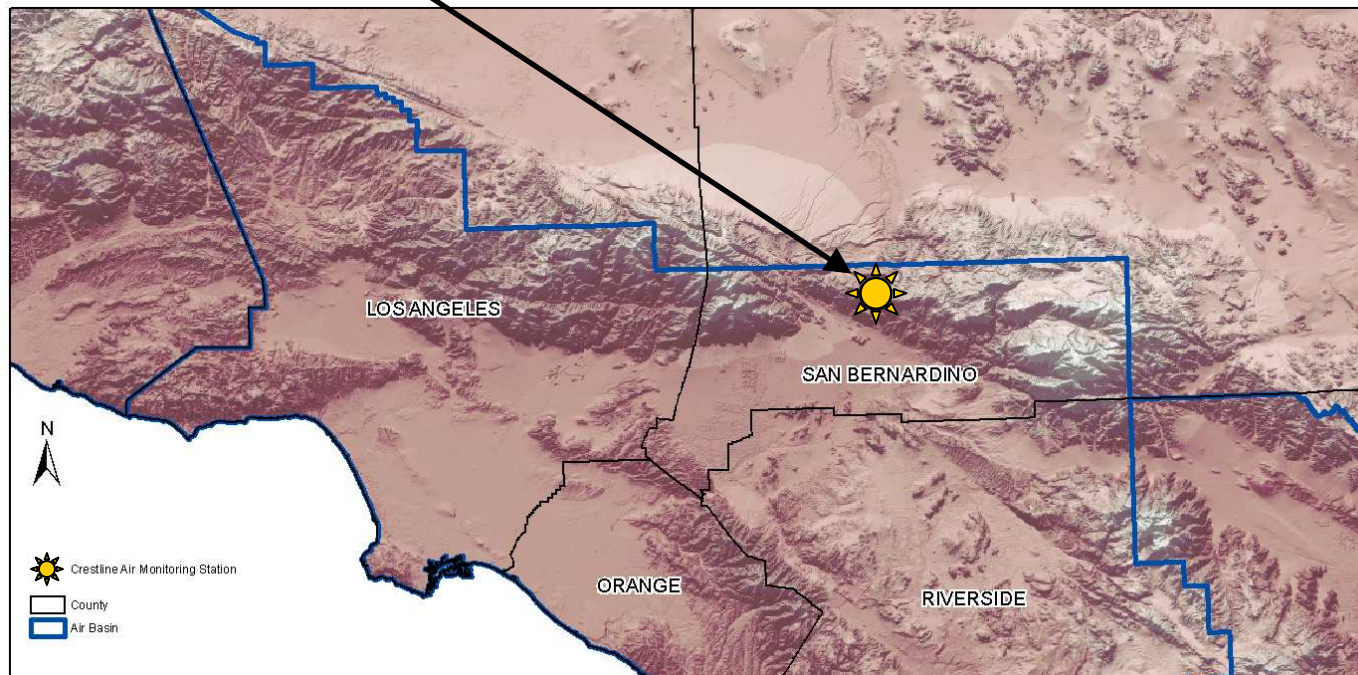


- Most areas saw between 45% to 85% decrease between 1995 and 2005
- San Gabriel Valley has gone from over 80 to less than 15 exceedance days
- Virtually all progress occurred between 1995 and 2000

Crestline

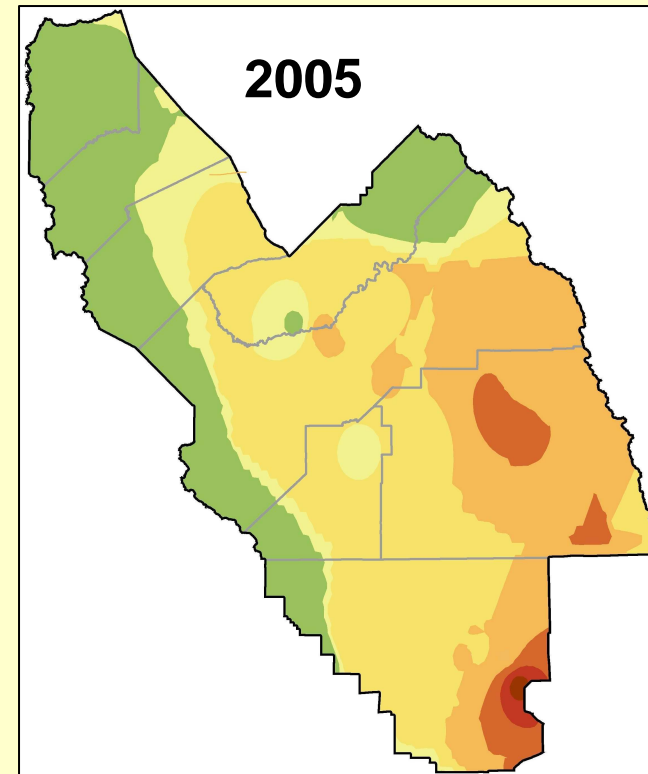
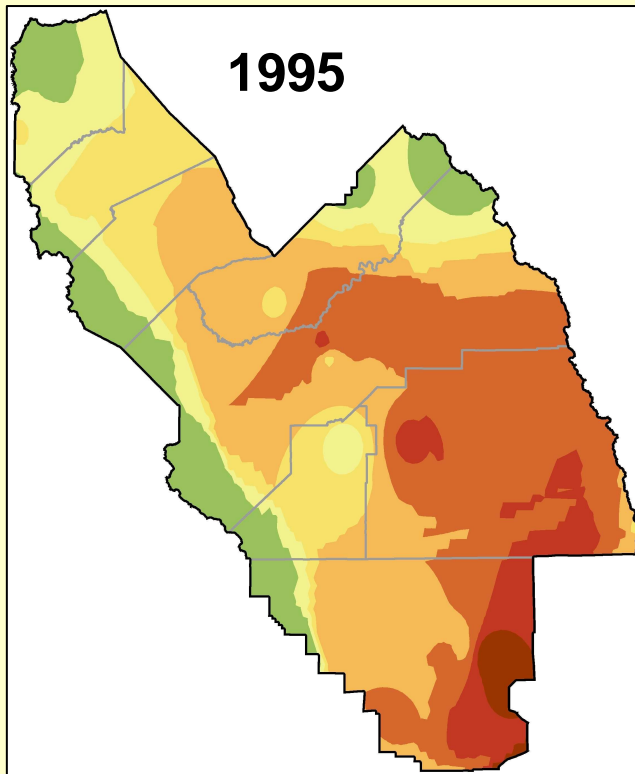


- Downwind site
- High elevation, 4540 ft
- Mountain Community



Ozone 8-hour Design Value

San Joaquin Valley



Below the Standard

0.000 - 0.084

Above the Standard

0.085 - 0.089

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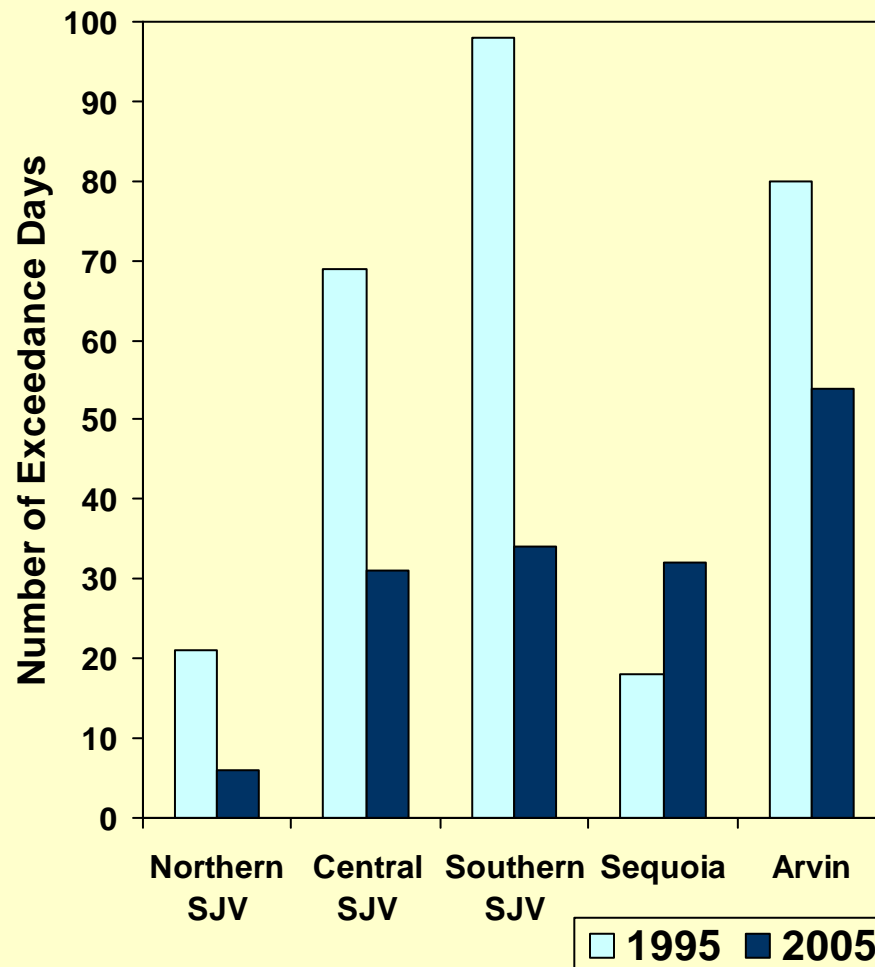
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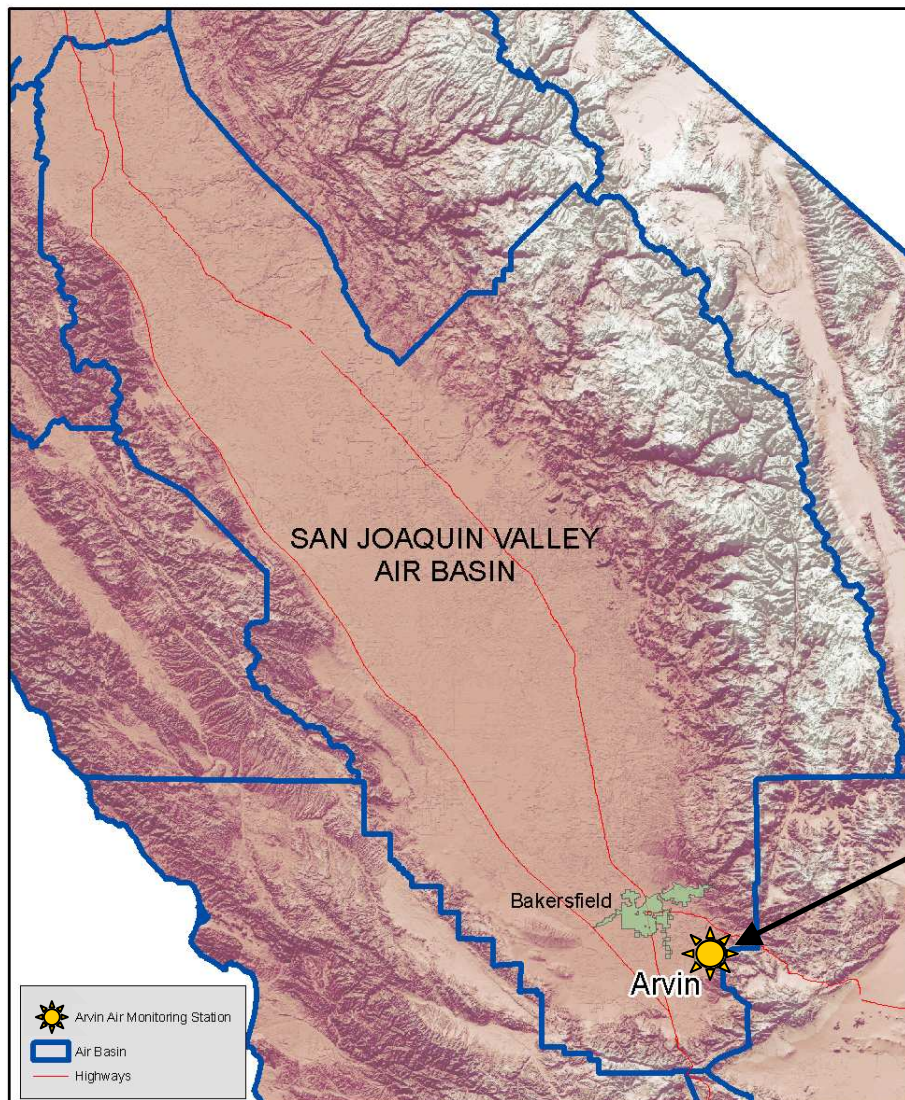
Ozone 8-hour Exceedance Days San Joaquin Valley



- Exceedance days increase from north to south
- Exceedance days declined between 55% and 70% except at Sequoia and Arvin
- Arvin had over 50 exceedance days in 2005

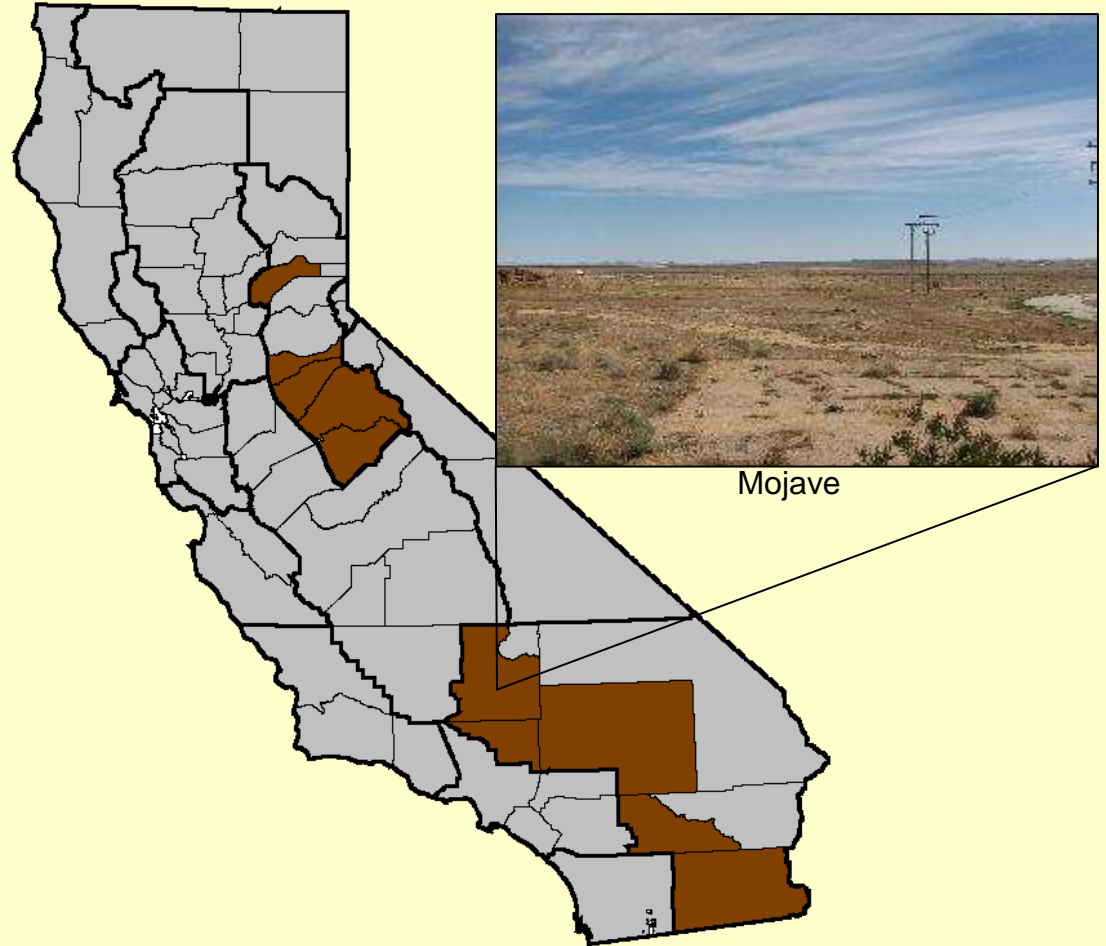
Arvin

- Rural area
- Highest number of exceedance days in basin
- Surrounded by high mountains



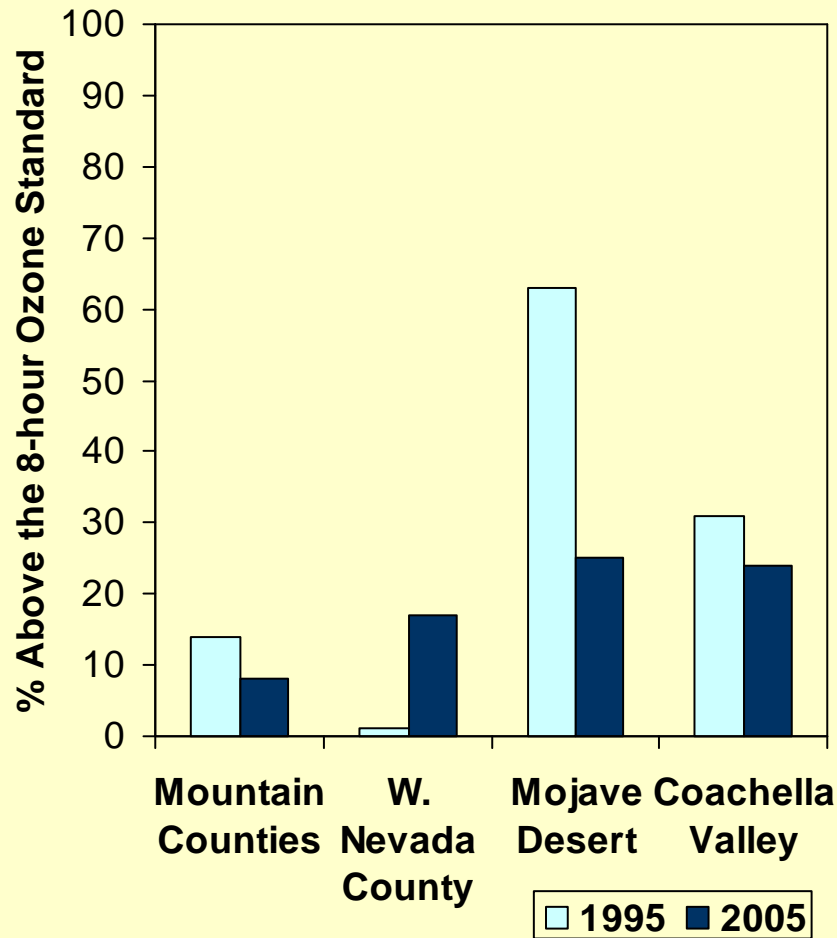
California Desert and Mountain Areas

- Mountain Counties
- Western Nevada County
- Western Mojave Desert/Antelope Valley
- Coachella Valley
- Imperial/East Kern



Ozone 8-hour Design Value

Desert and Mountain Areas



- Most areas showing improving air quality between 1995 and 2005
- Mojave Desert shows greatest improvement
- Attainment linked to reductions in upwind areas

2006 Ozone Season

- South Coast peak concentrations in 2006 similar to previous years
- Increase in SJV exceedance days – but still among the lowest in recent years
- Increase in Sacramento exceedance days, but design value is unchanged
- July heat wave had most impact on coastal regions close to or attaining the standard – San Diego and the Bay Area

Federal PM_{2.5}

PM2.5 Nonattainment Areas

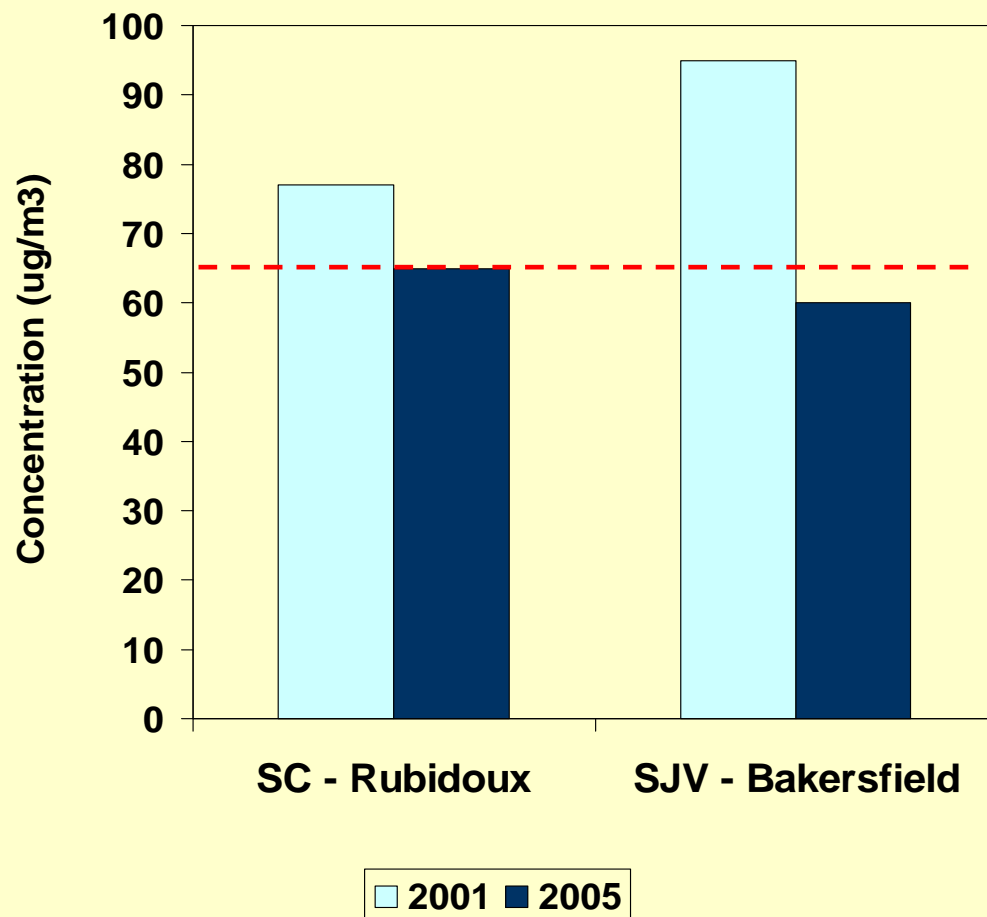


Rubidoux

Bakersfield

PM2.5 Design Value - 24-hour

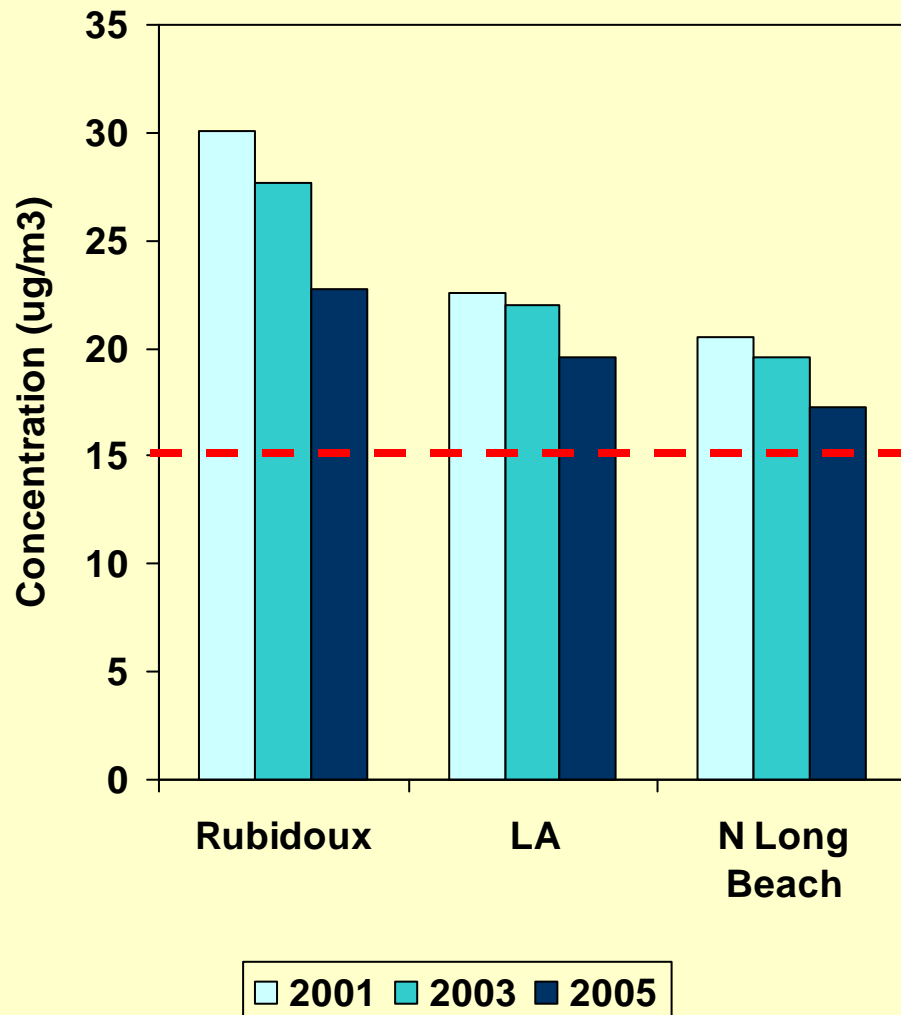
South Coast and San Joaquin Valley



- Both areas meet Federal 24-hour standard as of 2005
- South Coast high site decreased 15% since 2001
- San Joaquin high site decreased 35% since 2001

PM2.5 Design Value - Annual

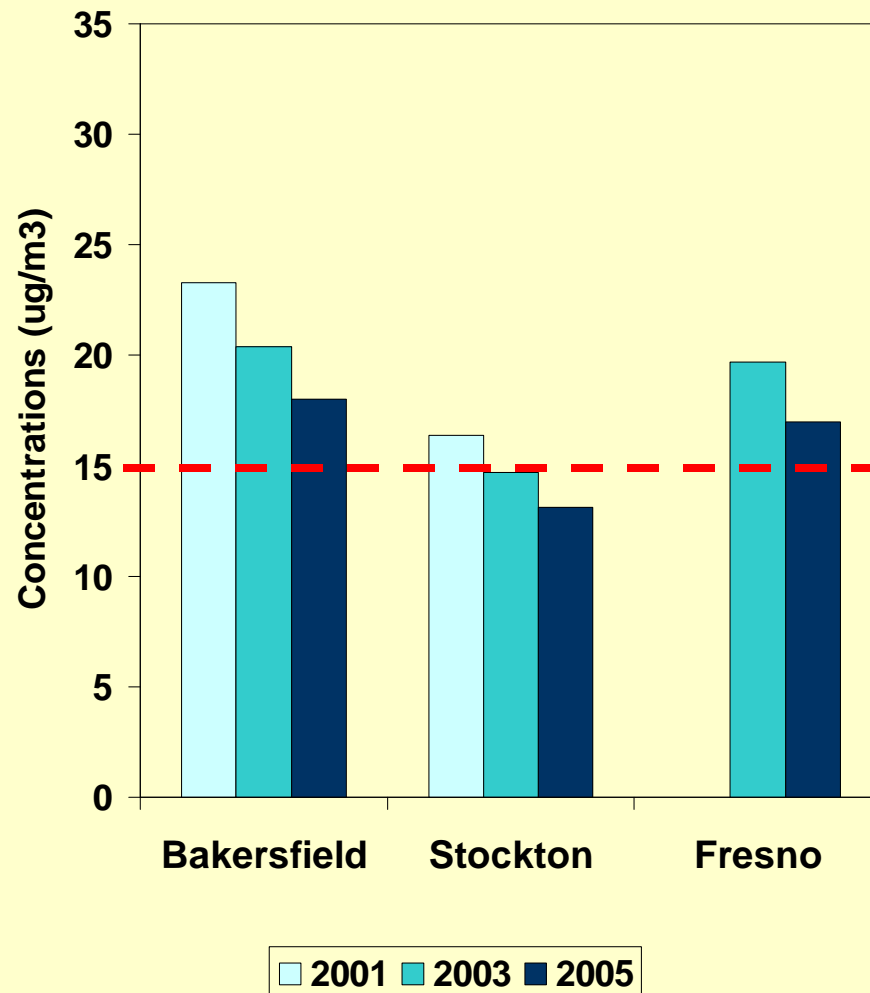
South Coast



- Basin annual average has decreased 25% since 2001
- All sites are decreasing
- Greatest decline at high site of Rubidoux
- Rubidoux currently 50% above standard

PM2.5 Design Value - Annual

San Joaquin Valley



- Basin annual average has decreased 25% since 2001
- All sites are decreasing
- Greatest decline at high site of Bakersfield
- Bakersfield currently 25% above standard

2006 PM2.5 Air Quality

- Complete data for 2006 not available until mid-year
- First half of year good indicator of expected annual average
- Average concentrations in first half of 2006 higher than 2005, but lower than previous years

Air Quality Successes

Statewide Air Quality Successes

- Ozone Progress
- PM Progress
- Carbon Monoxide Attainment



Ozone Progress

- Bay Area now meets the Federal 8-hour standard
- San Diego and Imperial very close to attainment
- Exceedance days in Ventura County decreased by 85% over the last decade

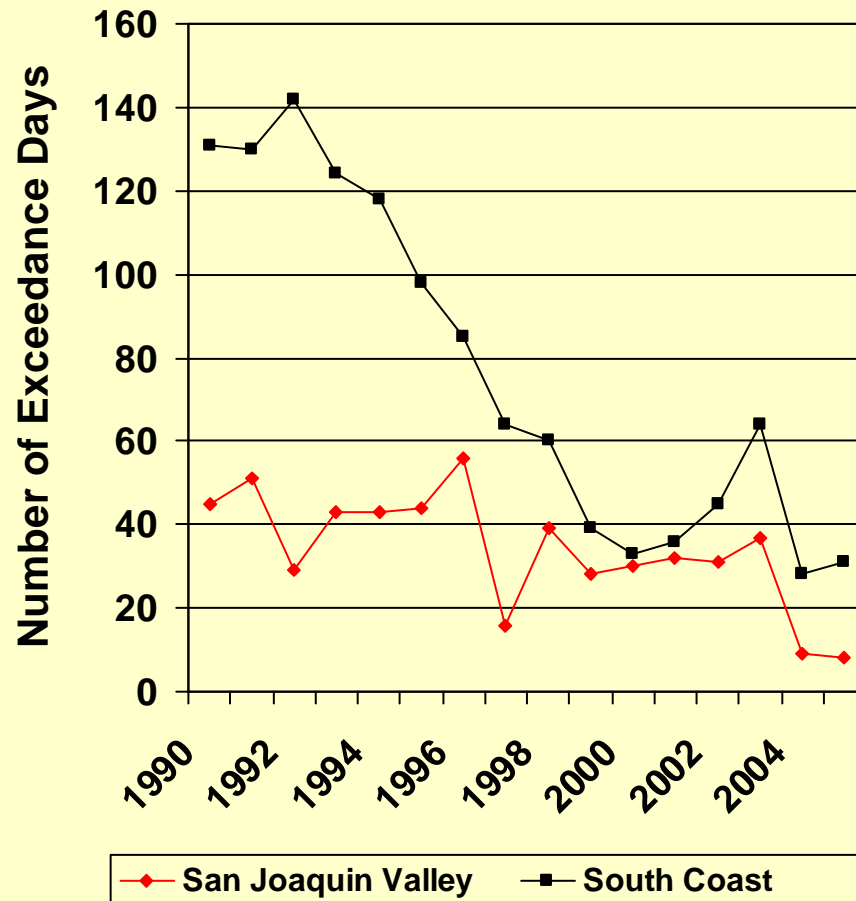
Ozone Progress con't

- South Coast population exposure decreased by 75% since 1990
- San Joaquin Valley saw a 50% decrease in population exposure during the same period

Exceedance Days - Federal 1-hour Standard

South Coast and San Joaquin Valley

1990-2005



- 1-hr ozone trends track 8-hr trends
- 70% reduction in exceedance days for the South Coast - 60% for the San Joaquin Valley

Particulate Matter Progress

- U.S. EPA issued finding that San Joaquin Valley attains annual and 24-hour Federal PM10 standards
- South Coast now meets 24-hour Federal PM10 standard and shows improving PM10 annual average concentrations

Carbon Monoxide Attainment



- California now meets Carbon Monoxide standards throughout the State